AH #43

3 April 1956

MEMORANDUM FOR: THE RECORD

SUBJECT : Project Monitor of Transistor Program - P-77

1. Time and Place of Meeting: The meeting was held on 7 February 1956 at [redacted] 25X1

2. Attendance: [redacted] 25X1

25X1

3. Purpose: The purpose of this trip was to monitor all phases of P-77 and to accompany [redacted] on a visit to the [redacted] 25X1
[redacted] 25X1

4. Discussion, Conclusions, and Actions:

A. General

(1) Crash Projects: Considerable discussion took place on the six crash projects recently placed with [redacted] 25X1 for rapid development and construction of equipment required for urgent operational use. This sudden work load requires the employment of two additional personnel who had been working on the self-actuating camera project and a supplement of funds to the extent of $30,000.00 on the basic Task I. (These funds have since been provided.)

(2) It was explained that, although the six different devices required under the crash projects were needed as soon as possible, each was of a generally useful nature that it should eventually be developed through the production-engineering stage. [redacted] 25X1 felt that the present overall requirements represent an estimated 18 months work-load for the people and facilities on hand at [redacted] 25X1

(3) The matter of nomenclature for each of the projects was discussed. It was agreed (and since been accomplished), that [redacted] 25X1 would provide a number to identify each of the devices. These numbers are used in this memorandum.

(4) It was agreed that

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(4) It was agreed that we would prepare a paper or "R & D Requirement" on each new job to be done under Task I of the basic contract. This paper would be basic to their records and ours, so there would be no confusion as to what we wanted done and they were required to do. This paper would not be overly formal and would not be necessary before work could be started since sometimes it is necessary to initiate a new effort by telephone or other verbal means.

b. Specific

Attached hereto are separate sheets for each of the different jobs currently in progress at [redacted] and covered during this particular trip. 25X1

[redacted] 25X1

TBS/APD

Distribution:
Orig. - P-77
1 - P-171
1 - AH #6
1 - AH #43
1 - AH #44
1 - AH #45
1 - Chrono

DLC/ls

7 February 1956

Profile and Image Analysis

[redacted] are spending 25X1
part time on this research project. Photographic images of a
[redacted] profile have been prepared and are being transferred 25X1
to metal for use in the electrolytic bath. These will constitute
the basis for additional experimentation and the preparation of
a report.

Photo - Recorder

[redacted] are still working on this 25X1
research job on a limited-time basis. A fundamental problem
is getting a sufficiently fine slit through which to place the
light on the film. [redacted] is investigating a photographic 25X1
method of solving this problem and is hopeful of being successful.

7 February 1956

[redacted] Microphone 25X1

No work has been done on this job during the past few months because of the pressure of higher priority work. The device still appears to be potentially useful. It was pointed out that a variety of [redacted] are on hand in Washington for use in this project. [redacted] felt that 25X1 25X1 25X1 the [redacted] should be held here until the [redacted] moves 25X1 to its new location [redacted] 25X1

Alpha Microphone

This particular device has been found to be quite noisy with the size and voltages considered appropriate for such a unit. It does not appear promising enough at present to warrant additional work and the job will probably be terminated.

7 February 1956

Ad Hoc #6 - [redacted] Project 25X1

The [redacted] narrow band FM, 40-200 KC receiver was 25X1
delivered [redacted] on this date. A tuned 55 KC front end will be 25X1
forwarded as soon as it is received in about two weeks. A
[redacted] "Radio Pager" (55 KC) was delivered several weeks ago. 25X1
The transmitter unit had not been packaged to date because no
suitable receiver was available for testing. [redacted] was informed that 25X1
the [redacted] printer was being shipped to this country for their 25X1
use in testing and installation.

15 March 1956

[redacted] took the 55 KC tuned front end (Lin-O-Phase 25X1
Filter) with him to [redacted] The transmitter is being tested prior 25X1
to packaging. Problems are being met in eliminating third harmonic
radiation from the transmitter. Because of size limitations and
the smaller size of components at higher frequencies, a unit near
90 KC is being investigated. Word was received from [redacted] 25X1
that the [redacted] unit is due in Washington shortly. [redacted] 25X1
agreed to get some information on long-wave broadcasting frequencies 25X1
[redacted] for determination of the permissible frequency for this 25X1
unit.

7 February 1956

Ad Hoc #44 - Carrier Current Transmitter [redacted] 25X1

[redacted] was informed that the requirement for a transmitter 25X1
for the [redacted] no longer existed and that 25X1
they could drop plans for doing it.

Some of the basic circuitry for the carrier current system being developed under Ad Hoc #6 is applicable in this project.

21 February 1956

An "R & D Requirement" for this project was turned over to [redacted] on this date. 25X1

15 March 1956

The target date of 1 May 1956 for delivery of the first prototype is still in order.

21 February 1956

Ad Hoc #45 - Four Transmitter Systems in Suitcase

The requirement for this system was telephoned to [redacted] 25X1

on or about 10 February 1956. The equipment was delivered,

along with instruction books on 21 February 1956 by [redacted] 25X1

The "R & D Requirement" for this project was given to

[redacted] on this date. 25X1

The system was shown to TSS/ASD, [redacted] 25X1

and [redacted] It was very well received. 25X1

7 February 1956

J-171 - [redacted] Transmitter 25X1

25X1

[redacted] agreed to prepare an "R & D Requirement" on this 25X1

project. [redacted] accompanied [redacted] to the [redacted] 25X1

[redacted] for a meeting on 9 February 1956. 25X1

[redacted] was to have forwarded two models of the [redacted] with 25X1

[redacted] circuitry modified and space for RF circuitry laid 25X1

out to [redacted] however, was having feedback problems and 25X1

their project engineer had just recovered from the mumps, so this

was not done. [redacted] was instructed to forward the unit thus 25X1

modified, even though the feedback problem had not been solved,

to [redacted] by not later than the following Monday. 25X1

[redacted] was instructed not to change serial numbers on two of 25X1

the [redacted] cases since the case could be changed simply by 25X1

the removal of two screws.

21 February 1956

An "R & D Requirement" for this device was forwarded with [redacted] 25X1

[redacted] The pressure on this requirement was relaxed to permit 25X1

delivery by 15 March since the specific operation for which it

was being designed fell through. Of course, neither [redacted] 25X1

[redacted] was informed of the reason for relaxation. The requirement 25X1

for a relay system was also dropped.

15 March 1956

J-171 - [redacted] Transmitter (Continued) 25X1

[redacted] reported that the system checked out 25X1
well in preliminary tests, although the unit oscillated when the audio gain was set at maximum. This fault was to be cured by inserting a series resistor and cutting down the gain. It is now expected that the first complete system will be delivered before 30 March 1956.

7 February 1956

Ad Hoc #43 [redacted] Transmitter 25X1

The work on this job has been almost at a standstill for the past two months because of the recent crash projects. [redacted] 25X1 has been especially busy on the self-actuating camera project. Investigations being carried out under receiver studies and transceiver projects dealing with stable oscillators and antennas are applicable to this problem. [redacted] will be available to start 25X1 concentrated work on this job about 1 March. It is estimated that approximately six months will be required.